

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
IMPELLER  
Woodard et al.  
Appl. No.: Unknown      Atty Docket: DUMMER4.1C1CI

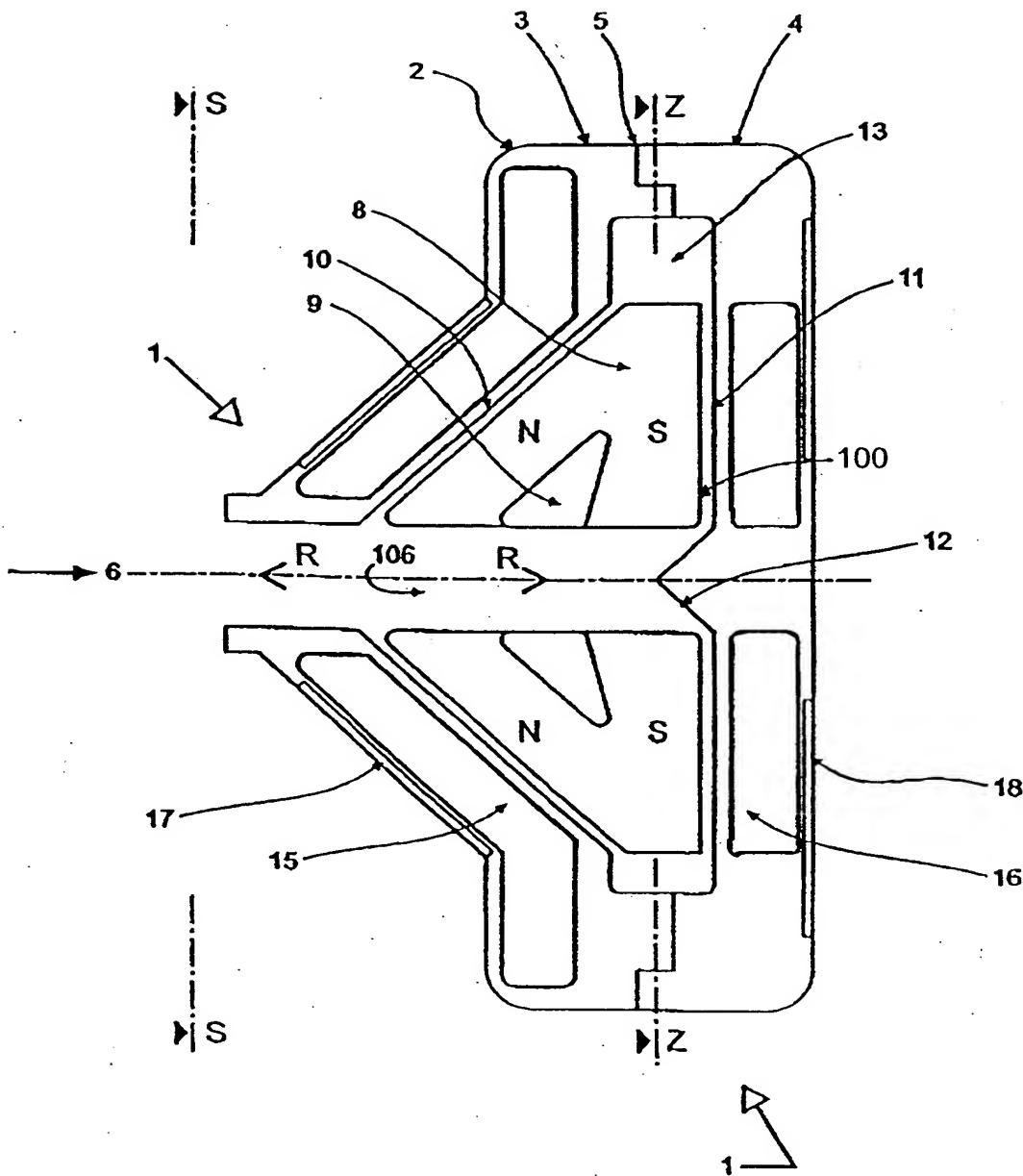


FIG. 1

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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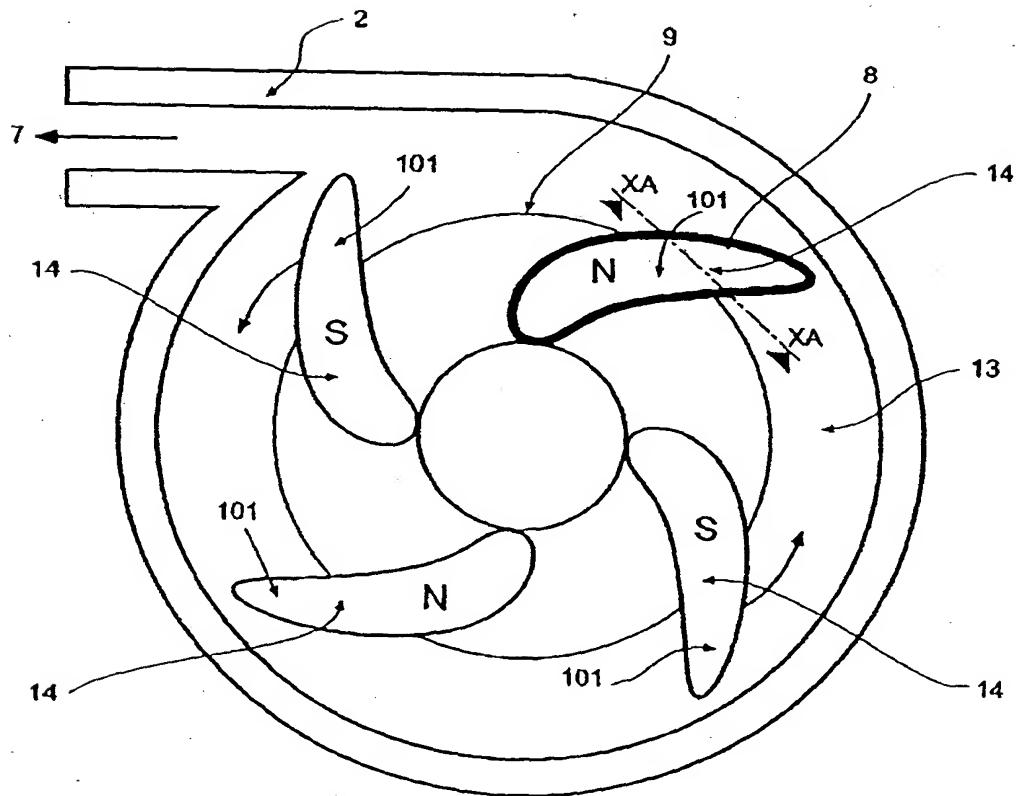


FIG. 2

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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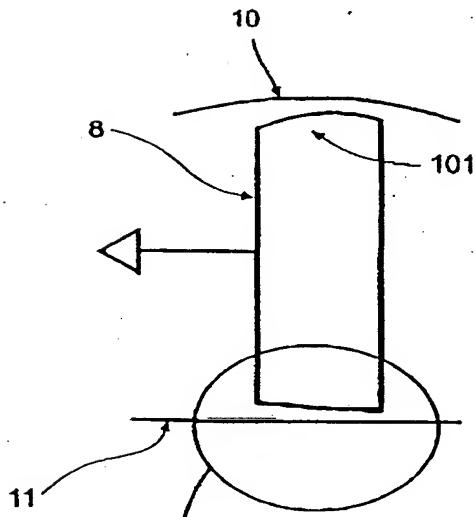


FIG. 3A

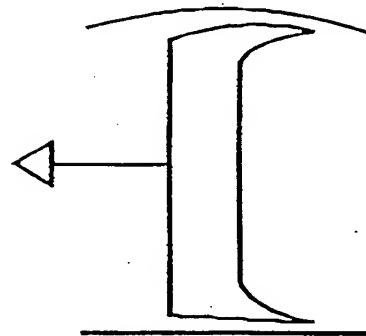


FIG. 3C

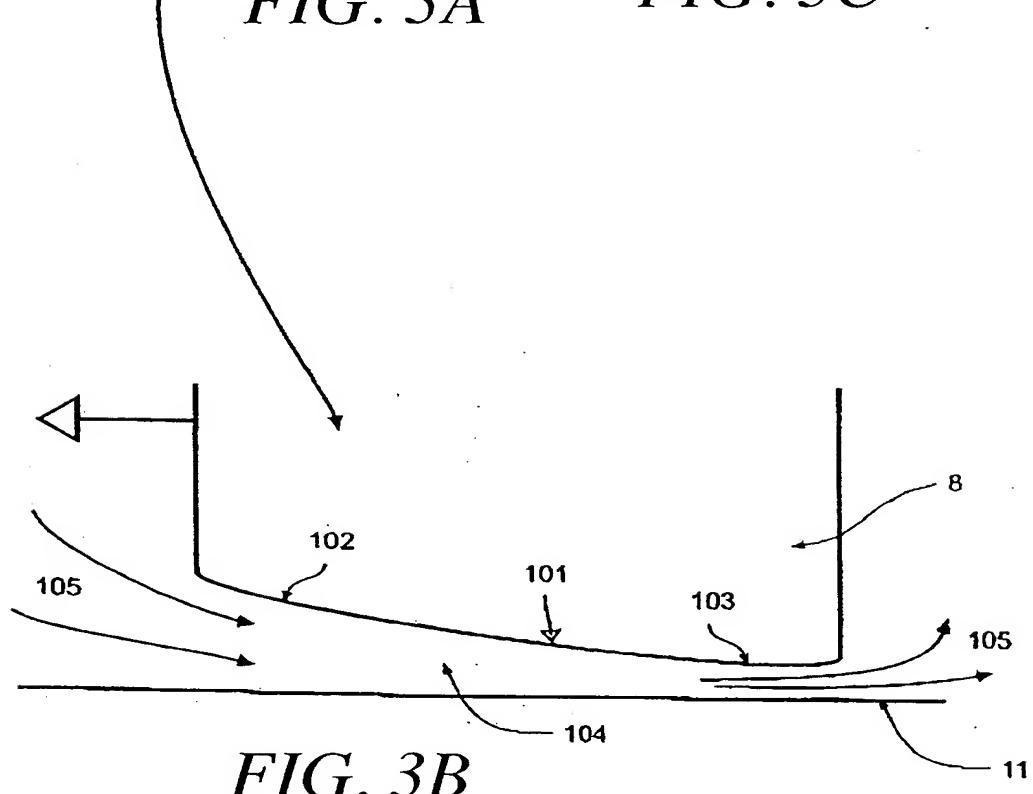


FIG. 3B

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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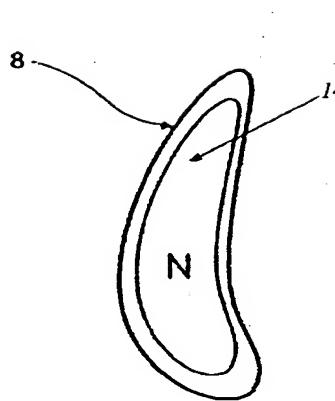


FIG. 4A

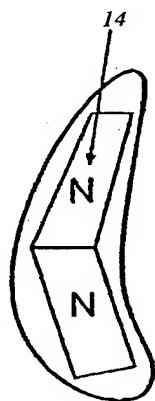


FIG. 4B

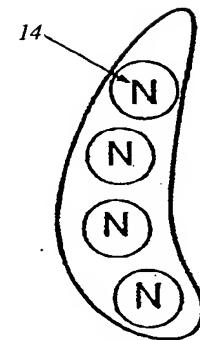


FIG. 4C

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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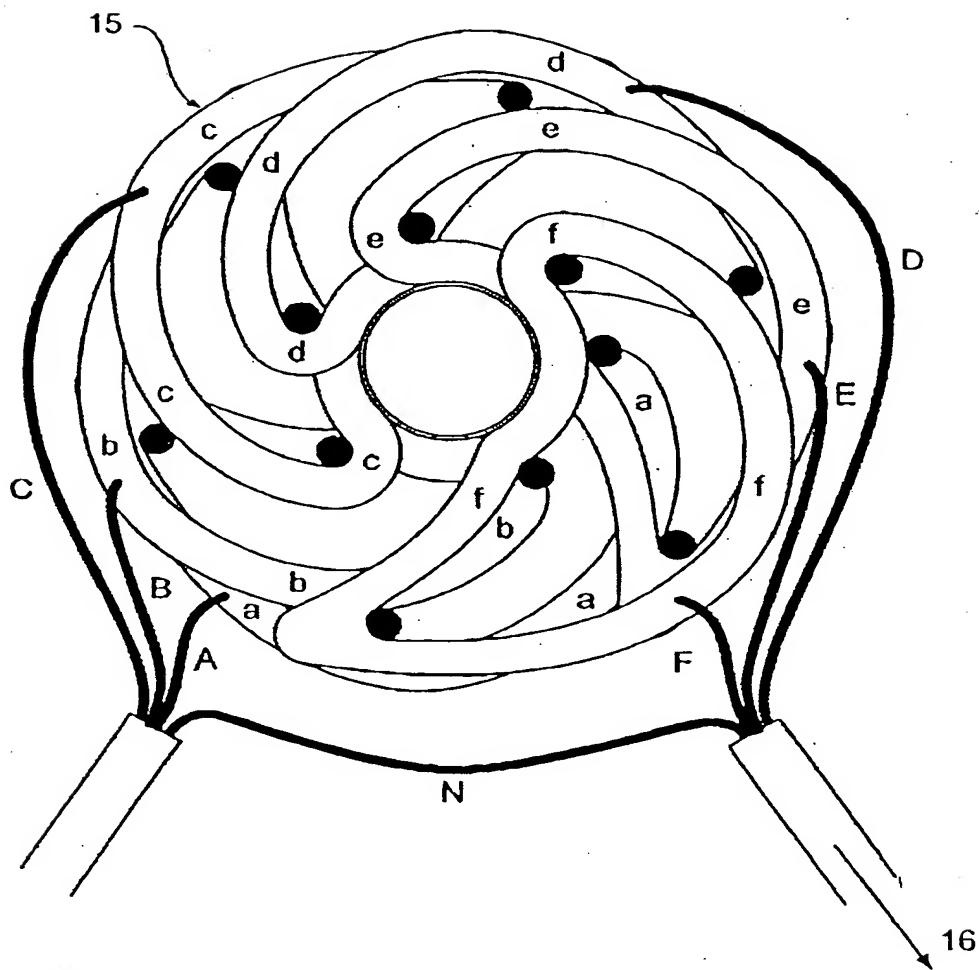


FIG. 5

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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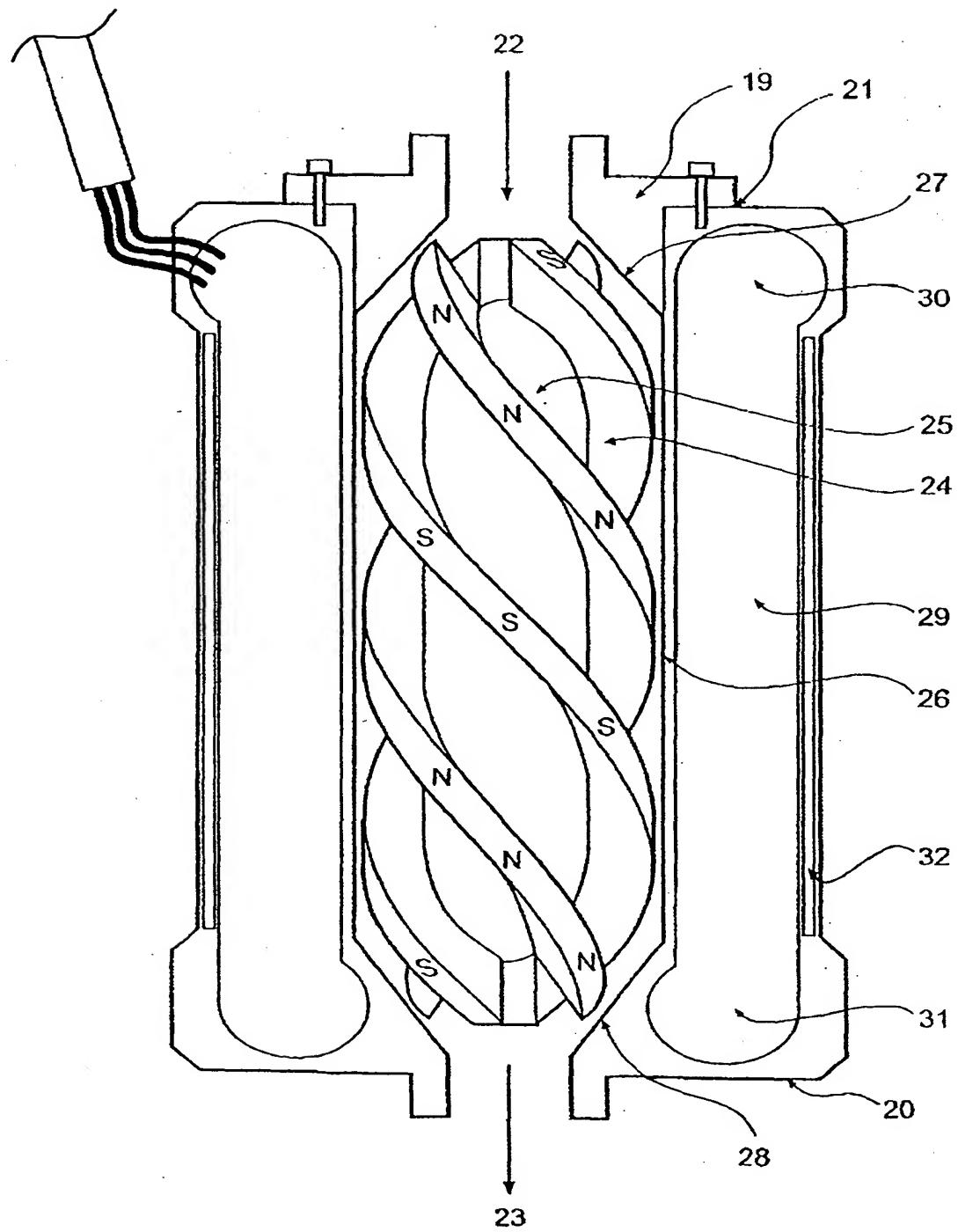


FIG. 6

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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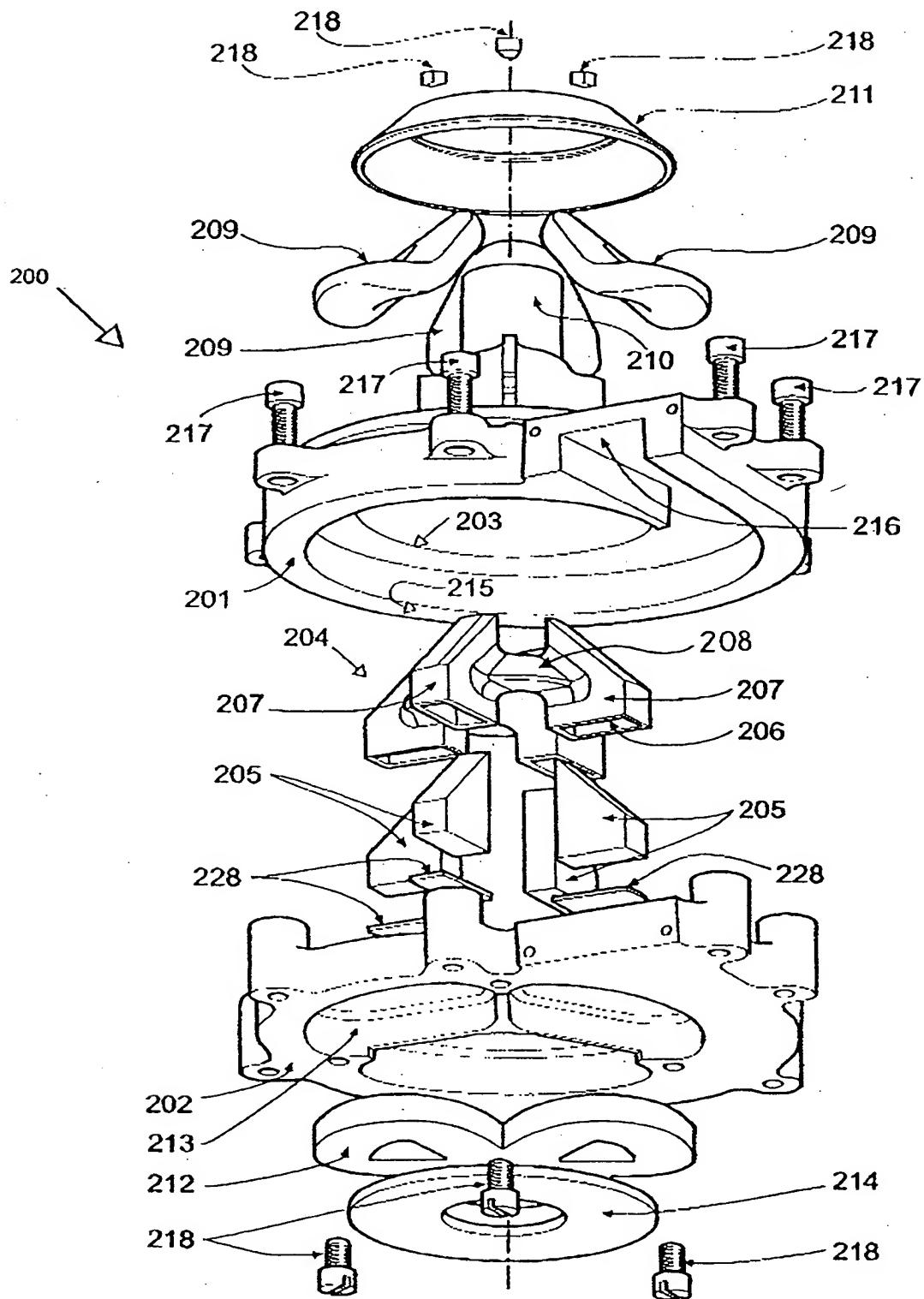
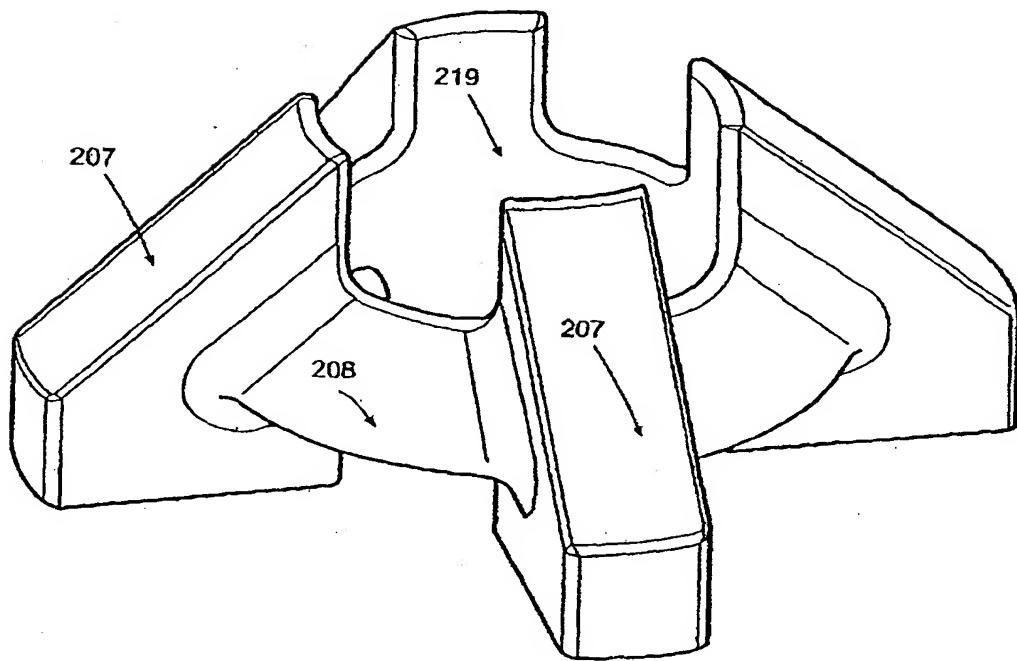


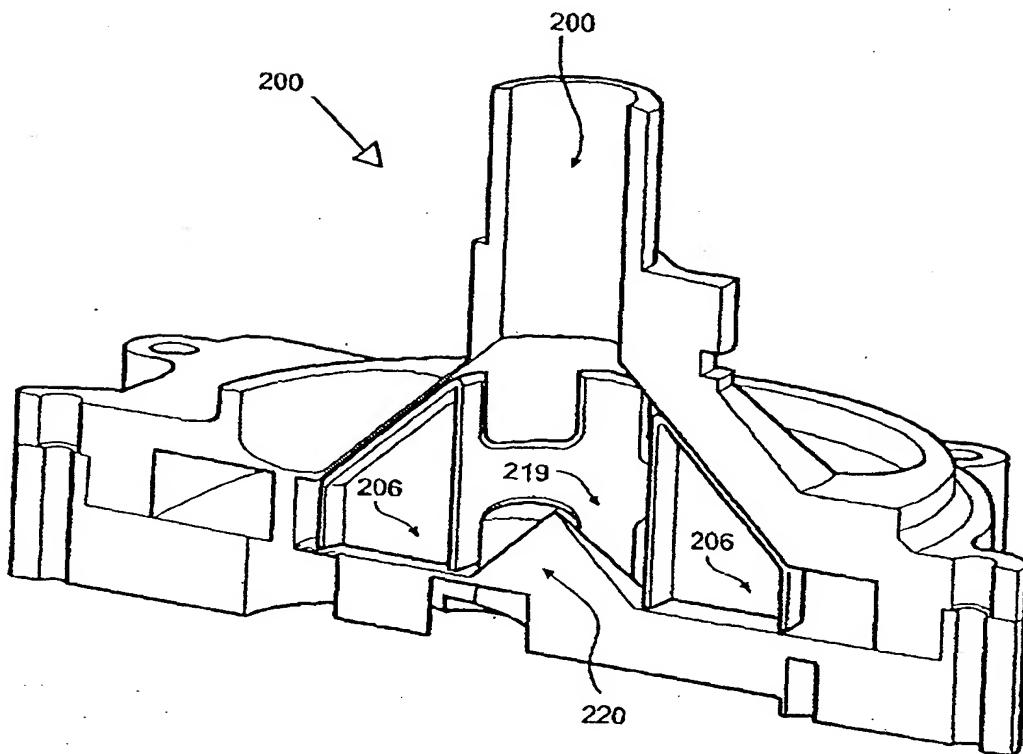
FIG. 7

*ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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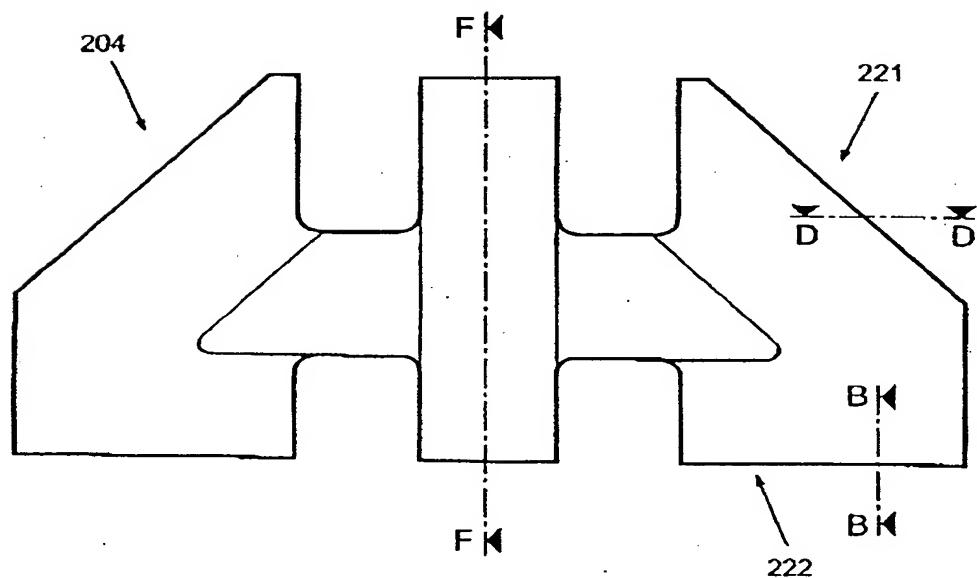
*FIG. 8*

*ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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*Appl. No.: Unknown*      *Atty Docket: DUMMER4.1C1C1*



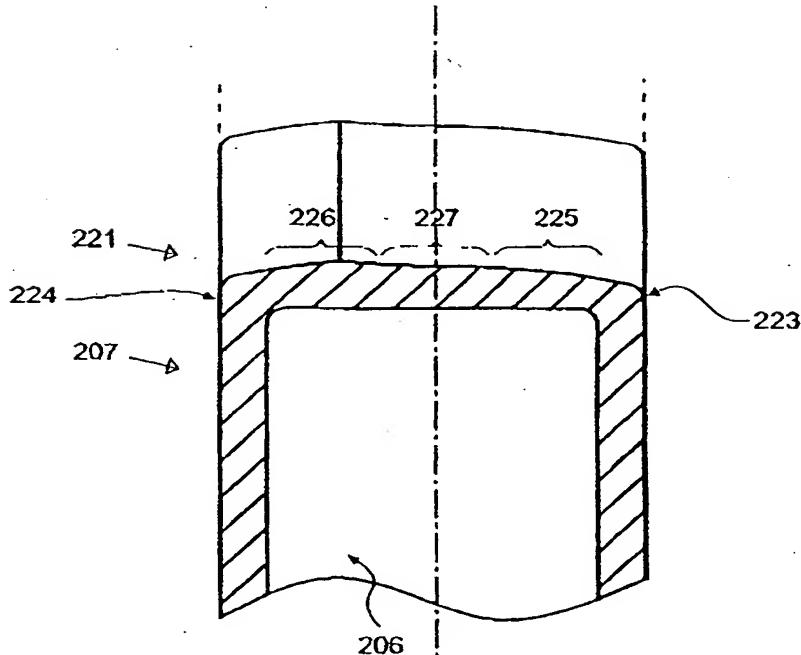
*FIG. 9*

*ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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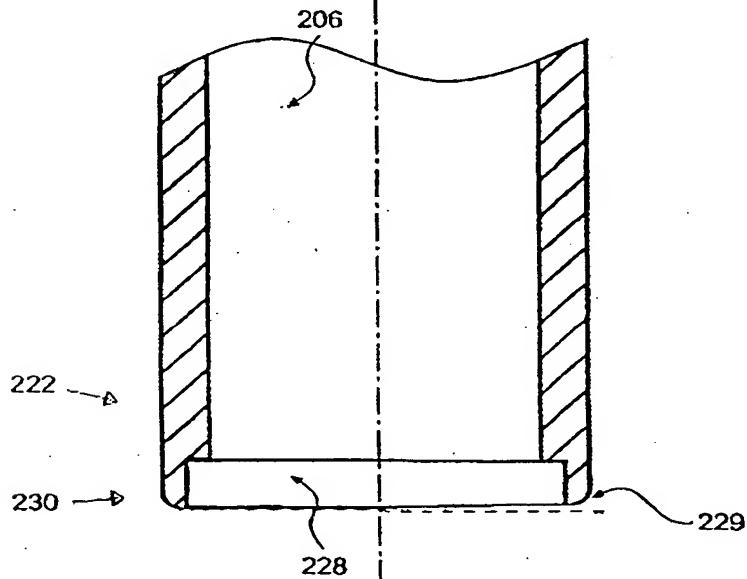


*FIG. 10*

*ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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*FIG. 11A*



*FIG. 11B*

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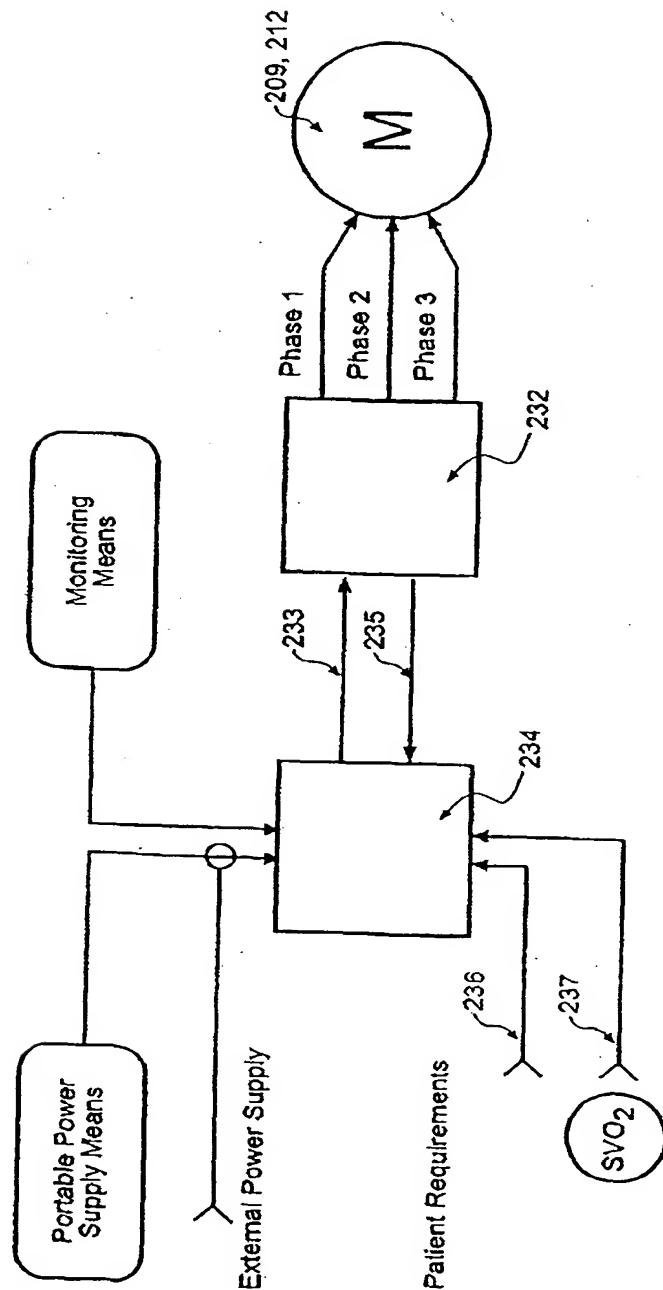


FIG. 12

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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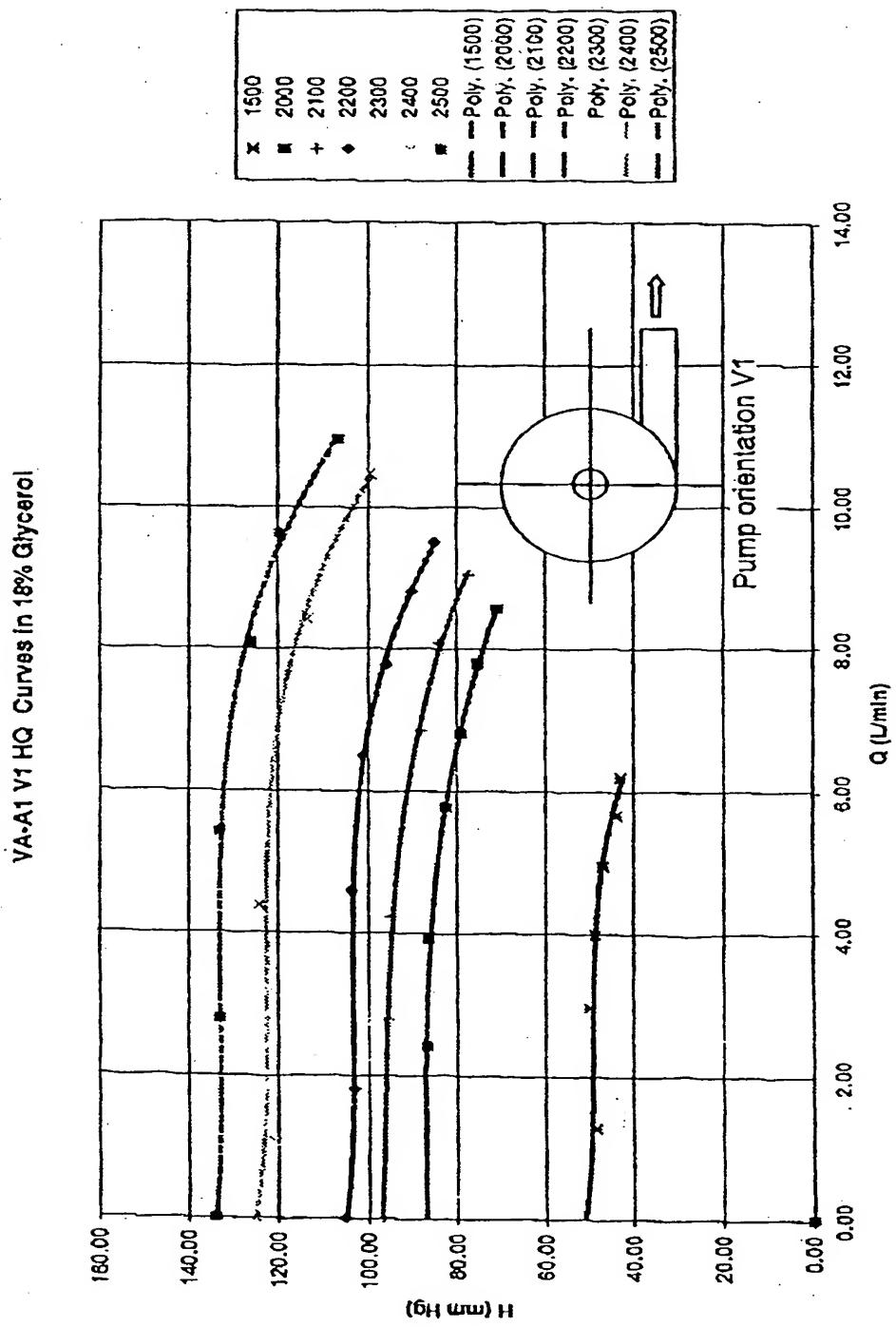


FIG. 13

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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V-A1 V1 Pump Efficiency ( $\eta$ ) Curves In 18% Glycerol

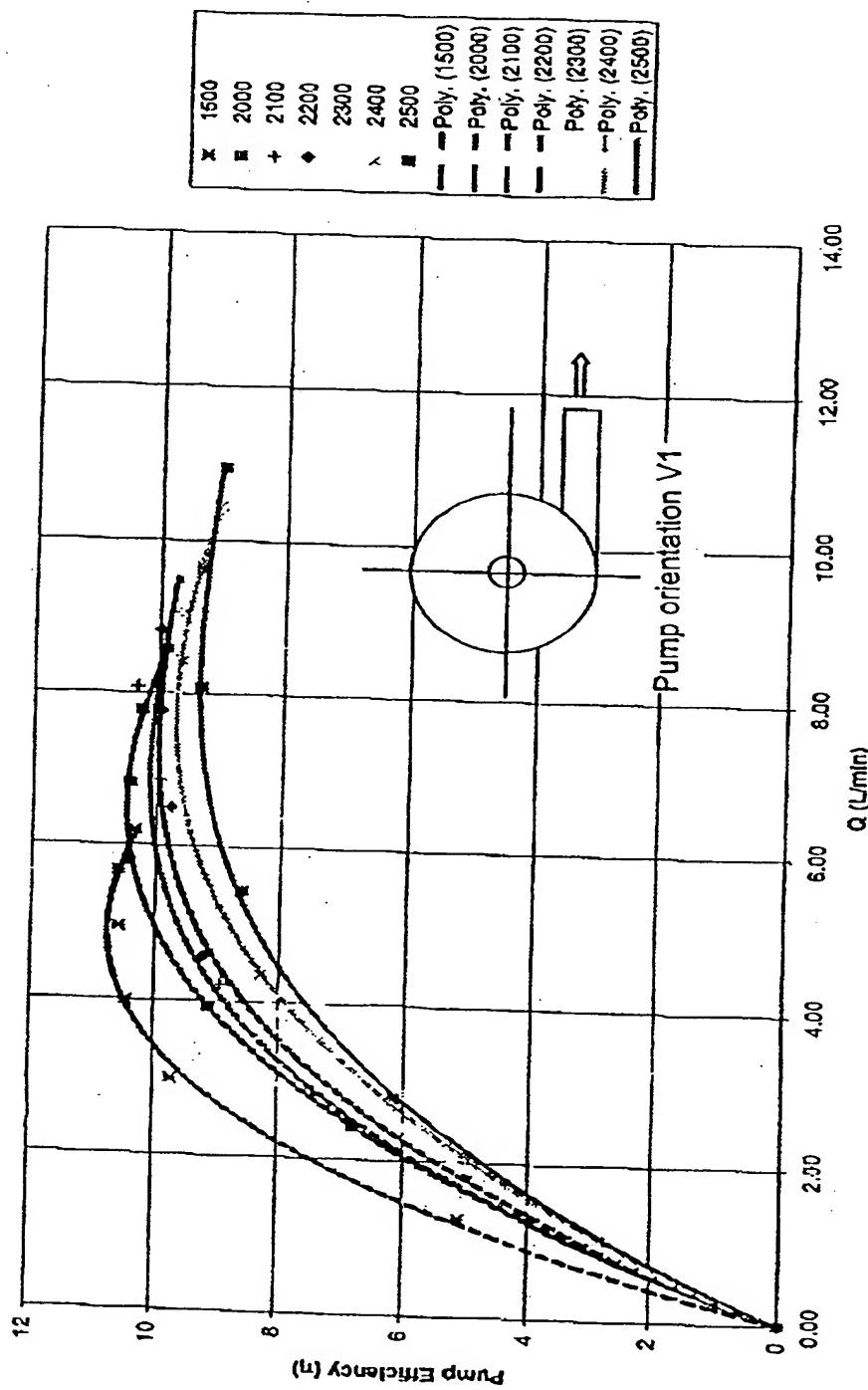


FIG. 14

VAA1 V1 Electrical Power vs Flow Rate Curves In 18% Glycerol

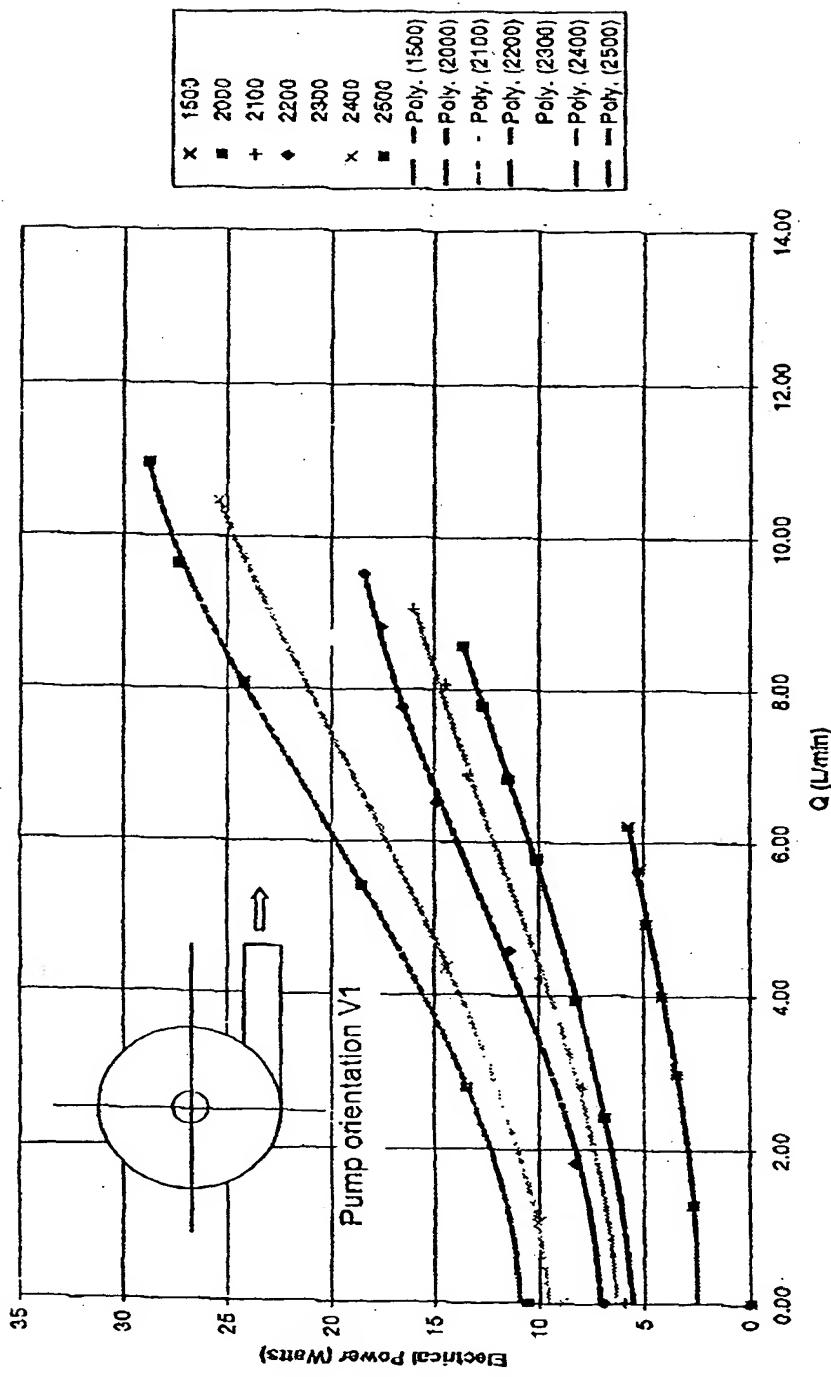
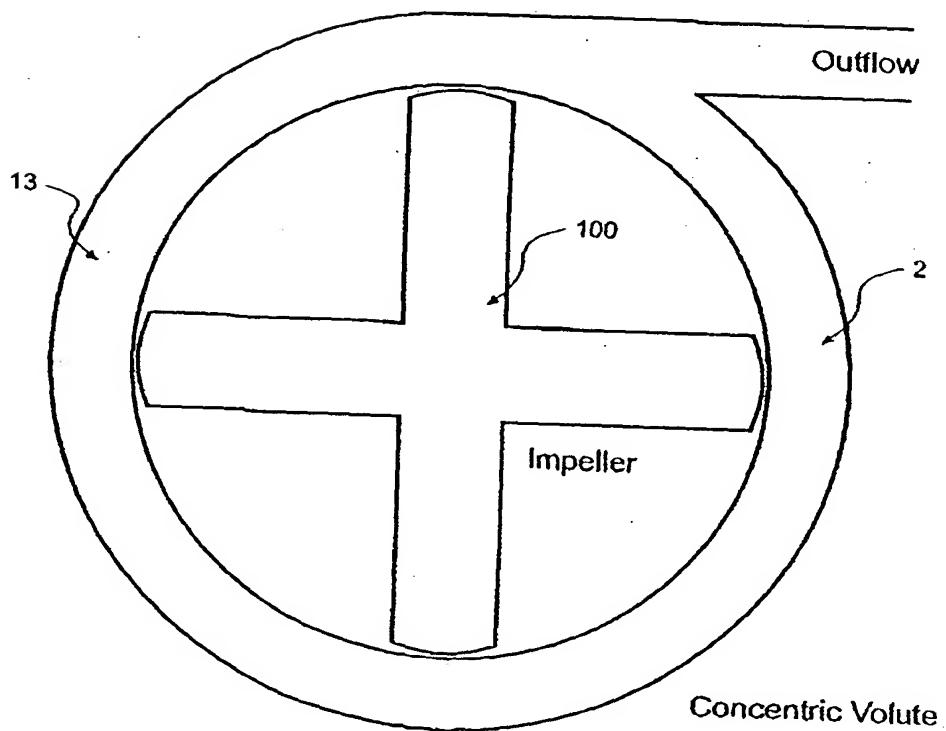


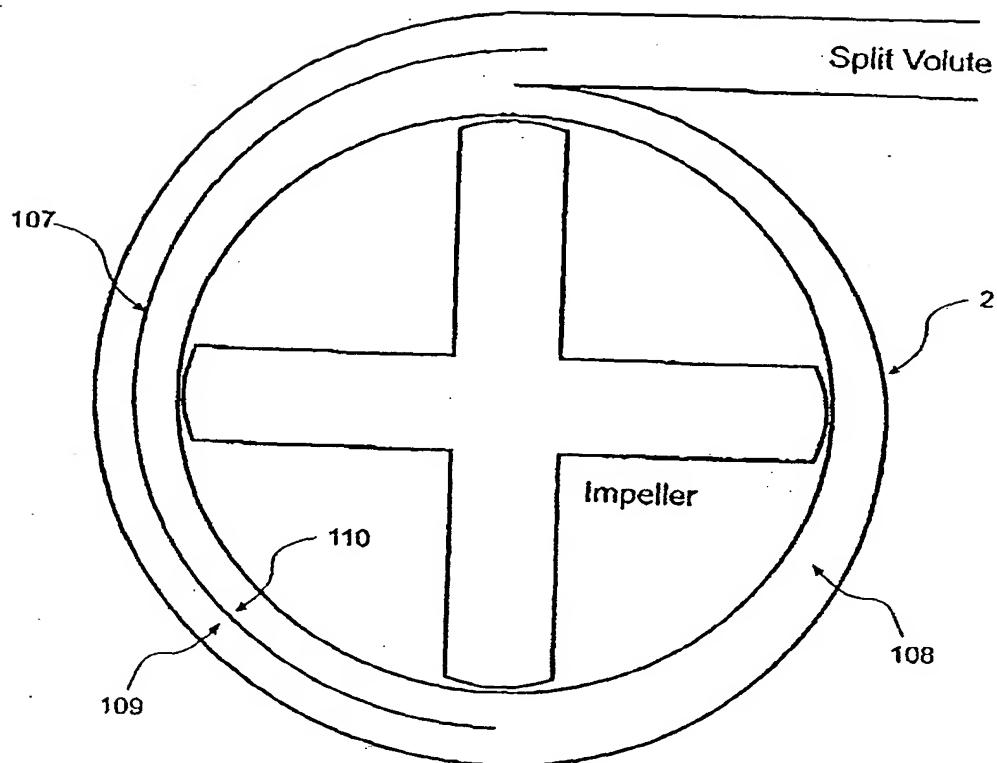
FIG. 15

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*FIG. 16*

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*FIG. 17*

ROTARY PUMP WITH HYDRODYNAMICALLY SUSPENDED  
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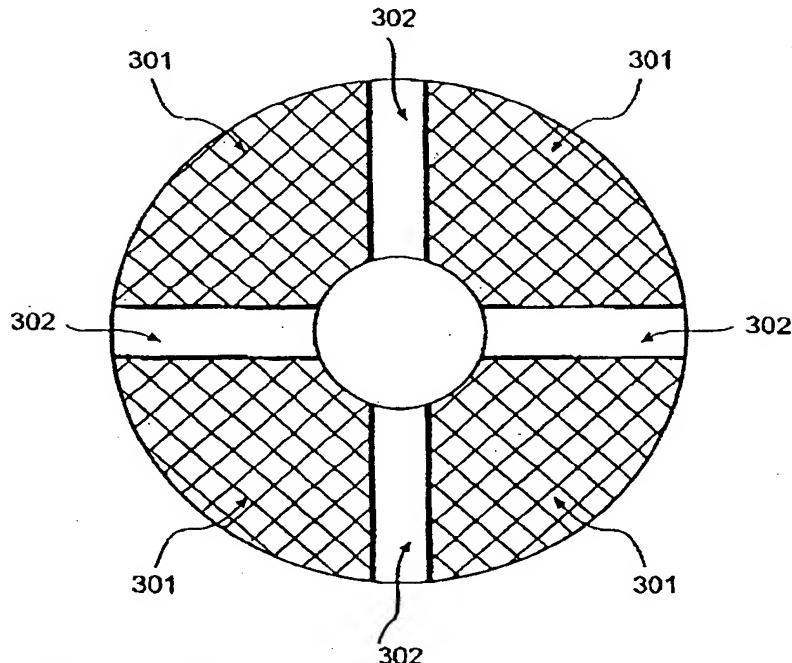


FIG. 18

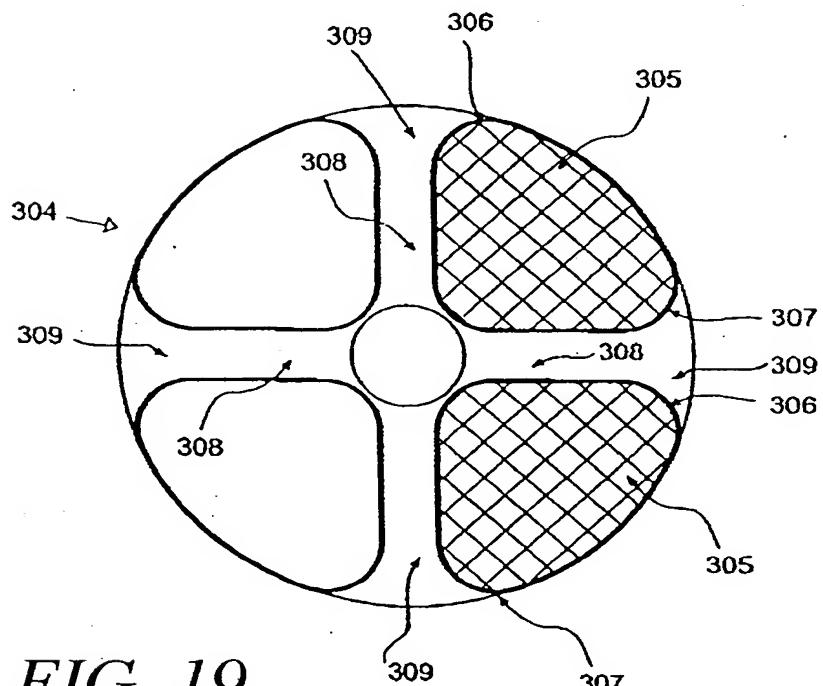
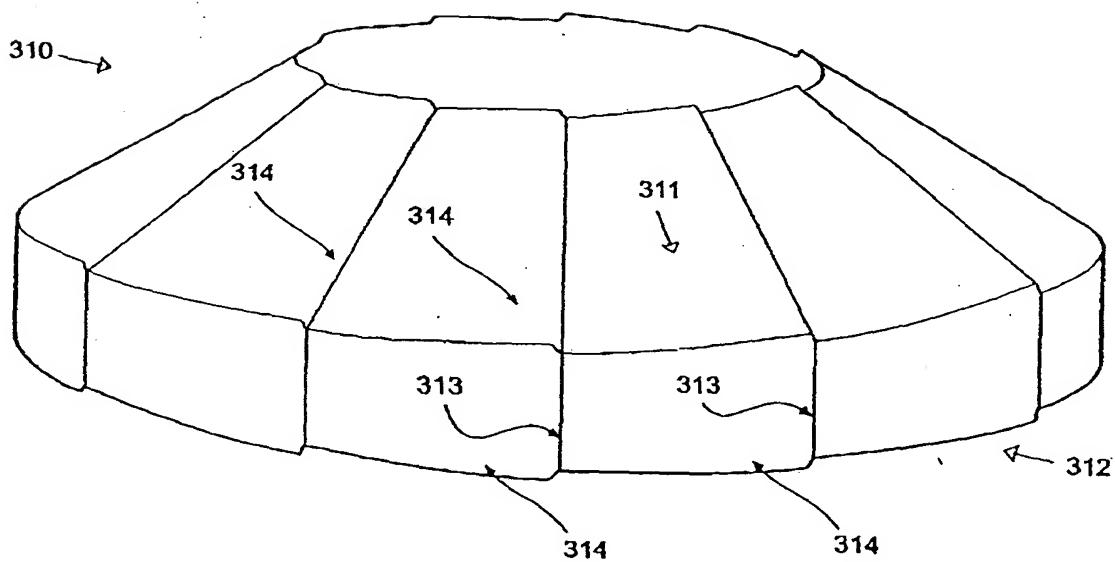


FIG. 19

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*FIG. 20*